Jun Xu

List of Publications by Year
in descending order

49 papers	556 citations	1039406 9 h-index	752256 20 g-index
52 all docs	52 docs citations	52 times ranked	494 citing authors

#	Article	IF	Citations
1	Multiagent Information Fusion and Cooperative Control in Target Search. IEEE Transactions on Control Systems Technology, 2013, 21, 1223-1235.	3.2	119
2	Cooperative Search and Exploration in Robotic Networks. Unmanned Systems, 2013, 01, 121-142.	2.7	76
3	Multi-Agent Cooperative Target Search. Sensors, 2014, 14, 9408-9428.	2.1	56
4	Consensus of multi€agent systems with general linear dynamics via dynamic output feedback control. IET Control Theory and Applications, 2013, 7, 108-115.	1.2	52
5	Simultaneous Stabilization and Robust Control of Polynomial Nonlinear Systems Using SOS Techniques. IEEE Transactions on Automatic Control, 2009, 54, 1892-1897.	3.6	46
6	Ultrasonic trapping of small particles by sharp edges vibrating in a flexural mode. Applied Physics Letters, 2004, 85, 6042-6044.	1.5	39
7	Synthesis of Discrete-time Nonlinear Systems: A SOS Approach. Proceedings of the American Control Conference, 2007, , .	0.0	19
8	Homogeneous polynomial lyapunov functions for piecewise affine systems. , 0, , .		17
9	NON-SYNCHRONIZED H_∞ ESTIMATION OF DISCRETE-TIME PIECEWISE LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 970-975.	0.4	12
10	Theoretical Lower Bound for UWB TDOA Positioning. , 2007, , .		11
11	A gain-varying UIO approach with adaptive threshold for FDI of nonlinear F16 systems. Journal of Control Theory and Applications, 2010, 8, 317-325.	0.8	10
12	Feedback Control Design for Discrete-time Piecewise Affine Systems. , 0, , .		9
13	Vision-based multi-agent cooperative target search. , 2012, , .		8
14	Rapid location technology of odor sources by multi€UAV. Journal of Field Robotics, 2022, 39, 600-616.	3.2	8
15	Dilated LMI Characterization and a New Stability Criterion for Polytopic Uncertain Systems. , 2006, , .		7
16	H_∞ STATE FEEDBACK CONTROL OF DISCRETE-TIME PIECEWISE AFFINE SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 101-106.	0.4	6
17	Non-synchronized H_∞ Estimation of Piecewise Linear Systems. , 2006, , .		6
18	Observer-based Fault Detection for Piecewise Linear Systems: Discrete-time Cases. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	6

#	Article	IF	Citations
19	TDOA-based adaptive sensing in multi-agent cooperative target tracking. Signal Processing, 2014, 98, 186-196.	2.1	6
20	Online fuzzy logic control with decision tree for improving hybrid cache performance & symposia. , 2016, , .		6
21	Simultaneous Stabilization and Robust Control for Polynomial Nonlinear Systems Using SOS. Proceedings of the American Control Conference, 2007, , .	0.0	5
22	Observer-based Fault Detection for Piecewise Linear Systems: Continuous-time Cases. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	4
23	Fault Detection and Isolation of Nonlinear Systems: An Unknown Input Observer Approach With Sum-of-Squares Techniques. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	4
24	A novel $H\hat{a}\check{z}$ UIO design for actuator FDI in finite frequency domain. International Journal of Control, Automation and Systems, 2011, 9, 601-605.	1.6	3
25	State-dependent M/G/1/K queuing model for hard disk drives. , 2017, , .		3
26	A SOS-based approach to residual generators for discrete-time polynomial nonlinear systems. , 2007, , .		2
27	Two Improved Approaches to Fault Detection with Unknown Inputs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 10136-10141.	0.4	2
28	A novel UIO-based approach for fault detection and isolation in finite frequency domain. , 2009, , .		2
29	Dynamic Consensus and Formation: Fixed and Switching Topologies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9188-9193.	0.4	2
30	Performance analysis of media-based cache via analytical and simulation model. , 2016, , .		2
31	On M/G[]/1/K queue with multiple state-dependent vacations: A real problem from media-based cache in hard disk drives. Performance Evaluation, 2020, 139, 102085.	0.9	2
32	Controllability and reachability of discrete-time planar bimodal piecewise linear systems. , 2006, , .		1
33	Fault detection and isolation for nonlinear F16 models using a gain-varying UIO approach. , 2009, , .		1
34	Stability analysis of planar continuous piecewise linear systems. , 2010, , .		1
35	L_2 gain analysis of piecewise linear systems using sums of squares: A negative result. , 2012, , .		1
36	Piecewise affine systems. , 2014, , 17-39.		1

#	Article	IF	Citations
37	A PWA approach to Takagi-Sugeno fuzzy logic systems. , 2014, , 169-192.		1
38	H/sub âˇž/ estimation of discrete-time piecewise linear systems. , 0, , .		0
39	A Scaling LMI Approach to Output Feedback Control of Discrete-time LTI Systems. , 2007, , .		0
40	Extended blending techniques with applications in robust tracking control and fault-tolerant control. , 2010, , .		0
41	FDI of disturbed nonlinear systems: A nonlinear UIO approach with SOS techniques. , 2010, , .		0
42	Hammerstein Model-Based Correlation UIO Method for Fault Detection of Nonlinear Flight Control Systems. , 2010, , .		0
43	Control and estimation of mechanical systems. , 2014, , 193-210.		0
44	Stability conditions based on vertex representation. , 2014, , 83-99.		0
45	Controllability and reachability. , 2014, , 101-121.		0
46	Stability conditions based on SOS polynomials. , 2014, , 61-82.		0
47	Hâˇž and generalized H2 controller design for PWA systems. , 2014, , 123-146.		0
48	Hâˇž and generalized H2 estimator design for PWA systems. , 2014, , 147-168.		0
49	Stability conditions based on PQLFs. , 2014, , 41-59.		0